

INTERNATIONAL SEARCH REPORT

International application No.
PCT/CA2004/001794

A. CLASSIFICATION OF SUBJECT MATTER
C12N 7/01; A61K 48/00; C12N 15/861; C12N 5/10

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
C12N 7/01; A61K 48/00; C12N 15/861; C12N 5/10

Electronic data base consulted during the international search (name of data base, and, where practicable, search terms used)

NCBI, QWEB, ESP@CENET, Medline, NTIS, USPTO, Canadian Patent Database, CAplus, Biosis,
Terms: Adenovirus, tropism, peptide, E-coil, K-coil

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	BARNETT, B.G., et. al. "Targeted adenoviral vectors", BIOCHIMICA ET BIOPHYSICA ACTA, ELSEVIER, AMSTERDAM, NL. 3 May 2002 (3.05.2002) vol. 1575, no. (1-3), pages 1-14 PMID 12020813 In particular see pages 7-9	1-9, 12, 13, 16-22, 25-33
X	KRASNKH, V., et. al. "Genetic Targeting of an Adenovirus Vector via Replacement of the Fiber Protein with the Phage T4 Fibritin" JOURNAL OF VIROLOGY, AMERICAN SOCIETY FOR MICROBIOLOGY, May 2001, vol. 75 pages 4176-4183	1-9, 12, 13, 16-22, 25-33
X	EINFELD, D.A., et. al. "Construction of a pseudoreceptor that mediates transduction by adenoviruses expressing a ligand in fiber or penton base" JOURNAL OF VIROLOGY, AMERICAN SOCIETY FOR MICROBIOLOGY, November 1999, vol. 73, no. 11, pages 9130-9136 PMID 10516019	1-9, 12, 13, 16-22, 25-33
X	NICLIN, S.T., et. al. "Ablating Adenovirus Type 5 Fiber-CAR Binding HI Loop Insertion of the SIGYPLP Peptide Generate an Endothelial Cell-Selective Adenovirus" MOLECULAR THERAPY, THE AMERICAN SOCIETY OF GENE THERAPY, December 2001, vol. 4, no. 6, pages 534-542 PMID 11735337	1-9, 12, 13, 16-22, 25-33
A	CA 2,234,073 A1 (HOUSTON, M.E. Jr., et. al.; Pence Inc.) 10 April 1997 (10.04.1997) CA 2,190,494 A1 (HODGES, R.S., et. al.; Pence Inc.) 23 November 1995 (23.11.1995)	1-33 1-33

Further documents are listed in the continuation of Box C.

Patent family members are listed in annex.

* Special categories of cited documents :	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A"	document defining the general state of the art which is not considered to be of particular relevance	"X"
"E"	earlier application or patent but published on or after the international filing date	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y"
"O"	document referring to an oral disclosure, use, exhibition or other means	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"P"	document published prior to the international filing date but later than the priority date claimed	"&"

Date of the actual completion of the international search
24 December 2004 (24-12-2004)

Date of mailing of the international search report
24 February 2005 (24-02-2005)

Name and mailing address of the ISA/
Commissioner of Patents
Canadian Patent Office - PCT
Ottawa/Gatineau K1A 0C9
Facsimile No. 1-819-953-9538

Authorized officer
Nancy L. Trus (819) 953-3355

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.
PCT/CA2004/001794

Patent Document Cited in Search Report	Publication Date	Patent Family Member(s)	Publication Date
CA2234073 A1	10-04-1997	AU695679 B2 AU7258496 A CA2234073 A1 EP0854931 A1 JP11512620T T WO9712988 A1	20-08-1998 28-04-1997 10-04-1997 29-07-1998 02-11-1999 10-04-1997
CA2190494 A1	23-11-1995	AT196297T T AU708472 B2 AU719469 B2 AU2441895 A AU2805995 A AU4753996 A AU6118196 A CA2190494 A1 CA2224086 A1 CA2361012 A1 CA2372569 A1 DE69518838D D1 DE69518838T T2 EP0759941 A1 EP0802991 A1 EP0833836 A1 JP10504018T T JP10512228T T JP11507648T T US5549748 A US5738996 A US5824483 A WO9531480 A1 WO9534575 A1 WO9621756 A1 WO9700267 A1	15-09-2000 05-08-1999 11-05-2000 05-12-1995 05-01-1996 31-07-1996 15-01-1997 23-11-1995 03-01-1997 03-01-1997 23-11-1995 19-10-2000 03-05-2001 05-03-1997 29-10-1997 08-04-1998 14-04-1998 24-11-1998 06-07-1999 27-08-1996 14-04-1998 20-10-1998 23-11-1995 21-12-1995 18-07-1996 03-01-1997

International Depository Authority of Canada
National Microbiology Laboratory, Health Canada
1015 Arlington Street
Winnipeg, Manitoba Canada R3E 3R2

Tel: (204) 789-2070
Fax: (204) 789-2097

International Form IDAC/BP/9

STATEMENT OF VIABILITY

(Issued pursuant to Rule 10.2 of the *Budapest Treaty Regulations*)

Party to Whom the Viability Statement is Issued

Name: Christian Cawthorn

Address: 1981, avenue McGill College, Bureau 1600, Montreal, PQ, Canada H3A 2Y3

Depositor

Name: NRC

Address: Biotechnology Research Institute, 6100 Av Royalmount, Montreal, Quebec H4P 2R2

Identification of the Deposit

Accession Number given by the International Depository Authority: 211004-01

Date of the original deposit (or most recent relevant date): October 21, 2004

Viability Test

Viability of the deposit identified above was tested on (most recent date): Nov. 26, 2004

On the date indicated above, the culture was:

viable

no longer viable

Conditions under which the Viability Test were performed (to be filled in if the information has been requested and the results of the test were negative):

Signature of person(s) authorized to represent IDAC

Date: November 26, 2004

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National Microbiology Laboratory, Health Canada
1015 Arlington Street
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Identification of the Deposit

Accession Number given by the International Depository Authority: 211004-02

Date of the original deposit (or most recent relevant date): October 21, 2004

Viability Test

Viability of the deposit identified above was tested on (most recent date): Nov. 26, 2004

On the date indicated above, the culture was:

viable

no longer viable

Conditions under which the Viability Test were performed (to be filled in if the information has been requested and the results of the test were negative): _____

Signature of person(s) authorized to represent IDAC

Date: November 26, 2004

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Depositor

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Identification of the Deposit

Accession Number given by the International Depository Authority: 211004-03

Date of the original deposit (or most recent relevant date): October 21, 2004

Viability Test

Viability of the deposit identified above was tested on (most recent date): Nov. 26, 2004

On the date indicated above, the culture was:

viable

no longer viable

Conditions under which the Viability Test were performed (to be filled in if the information has been requested and the results of the test were negative): _____

Signature of person(s) authorized to represent IDAC

Date: November 26, 2004